

? begin 5,73,155,399

11may04 09:29:52 User208760 Session D2467.2

\$0.00 0.071 DialUnits File410

\$0.00 Estimated cost File410

\$0.02 TELNET

\$0.02 Estimated cost this search

\$0.35 Estimated total session cost 0.165 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2004/May W1

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File 73:EMBASE 1974-2004/May W1

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File 155:MEDLINE(R) 1966-2004/May W1

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File 399:CA SEARCH(R) 1967-2004/UD=14020

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Set Items Description

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? e au=fox gary ?

Ref	Items	Index-term
E1	1	AU=FOX GAIL
E2	2	AU=FOX GAREY A
E3	0	*AU=FOX GARY ?
E4	2	AU=FOX GARY G
E5	19	AU=FOX GARY M
E6	9	AU=FOX GARY N
E7	9	AU=FOX GEOFFREY Q
E8	1	AU=FOX GEORGE
E9	7	AU=FOX GEORGE A
E10	2	AU=FOX GEORGE C
E11	71	AU=FOX GEORGE E
E12	2	AU=FOX GEORGE L

Enter P or PAGE for more

? s e3-e6

0 AU=FOX GARY ?
2 AU=FOX GARY G
19 AU=FOX GARY M
9 AU=FOX GARY N

S1 30 E3-E6

? rd s1

...completed examining records

S2 29 RD S1 (unique items)

? e au=yoshinaga steven ?

Ref	Items	Index-term
E1	3	AU=YOSHINAGA STEVE K
E2	1	AU=YOSHINAGA STEVEN
E3	0	*AU=YOSHINAGA STEVEN ?
E4	22	AU=YOSHINAGA STEVEN K
E5	2	AU=YOSHINAGA STEVEN KIYOSHI
E6	3	AU=YOSHINAGA SUMIKO
E7	5	AU=YOSHINAGA SYUYA
E8	235	AU=YOSHINAGA T
E9	118	AU=YOSHINAGA T.
E10	1	AU=YOSHINAGA TADAHIKO
E11	2	AU=YOSHINAGA TAKAAKI

E12 4 AU=YOSHINAGA TAKAHARU

Enter P or PAGE for more

? s e1-e5

3 AU=YOSHINAGA STEVE K
1 AU=YOSHINAGA STEVEN
0 AU=YOSHINAGA STEVEN ?
22 AU=YOSHINAGA STEVEN K
2 AU=YOSHINAGA STEVEN KIIYOSHI

S3 28 E1-E5

? s (s1 or s3) and (b7(w)L or b7(w)h2 or b7(w)H7 or bsl3 or pd(w)L2)

30 S1
28 S3
19041 B7
1970607 L
8 B7(W)L
19041 B7
76873 H2
42 B7(W)H2
19041 B7
13792 H7
0 B7(W)H7
11 BSL3
2463403 PD
19530 L2
116 PD(W)L2

S4 0 (S1 OR S3) AND (B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD(W)L2)

? s (s1 or s3) and b7?

30 S1
28 S3
23703 B7?

S5 17 (S1 OR S3) AND B7?

? rd s5

...completed examining records

S6 12 RD S5 (unique items)

? t s6/3/all

6/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014560976 BIOSIS NO.: 200300516339
Interaction of **B7RP**-1 with ICOS negatively regulates antigen presentation by B cells.
AUTHOR: Wahl Patricia; Schoop Roland; Horan Thomas P; **Yoshinaga Steven K**; Wuthrich Rudolf P (Reprint)
AUTHOR ADDRESS: Division of Nephrology, Kantonsspital, Rorschacherstrasse 95, 9007, Saint Gallen, Switzerland**Switzerland
AUTHOR E-MAIL ADDRESS: rpw@kssg.ch
JOURNAL: Inflammation 27 (4): p191-200 August 2003 2003
MEDIUM: print
ISSN: 0360-3997 (ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

6/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014548784 BIOSIS NO.: 200300503812
The **B7** family member **B7-H3** preferentially down-regulates T

helper type 1-mediated immune responses.

AUTHOR: Suh Woong-Kyung; Gajewska Beata U; Okada Hitoshi; Gronski Matthew A
; Bertram Edward M; Dawicki Wojciech; Duncan Gordon S; Bukczynski Jacob;
Plyte Suzanne; Elia Andrew; Wakeham Andrew; Itie Annick; Chung Stephen;
da Costa Joan; Arya Sudha; Horan Tom; Campbell Pauline; Gaida Kevin;
Ohashi Pamela S; Watts Tania H; **Yoshinaga Steven K**; Bray Mark R;
Jordana Manel; Mak Tak W (Reprint

AUTHOR ADDRESS: Advanced Medical Discovery Institute, Ontario Cancer
Institute, and Departments of Medical Biophysics and Immunology,
University of Toronto, 620 University Avenue, Toronto, Ontario, M5G 2C1,
Canada**Canada

AUTHOR E-MAIL ADDRESS: tmak@uhnres.utoronto.ca

JOURNAL: Nature Immunology 4 (9): p899-906 September 2003 2003

MEDIUM: print

ISSN: 1529-2908 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

6/3/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0014115818 BIOSIS NO.: 200300074537

Potent activity of soluble **B7RP**-1-FC in therapy of murine tumors in
syngeneic hosts.

AUTHOR: Ara Gulshan; Baher Angelo; Storm Neal; Horan Tom; Baikalov Claudia;
Brisan Emil; Camacho Reuben; Moore Alison; Goldman Hartt; Kohno Tadahiko;
Cattley Russell C; Van Gwyneth; Gaida Kevin; Zhang Ming; Whoriskey John S
; Fong David; **Yoshinaga Steven K** (Reprint

AUTHOR ADDRESS: Department of Inflammation, Amgen Inc., One Amgen Center
Drive, Thousand Oaks, CA, 91320, USA**USA

AUTHOR E-MAIL ADDRESS: skybay@adelphia.net

JOURNAL: International Journal of Cancer 103 (4): p501-507 10 February,
2003 2003

MEDIUM: print

ISSN: 0020-7136

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

6/3/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013967480 BIOSIS NO.: 200200560991

Inducible costimulator costimulates cytotoxic activity and IFN-gamma
production in activated murine NK cells

AUTHOR: Ogasawara Kouetsu; **Yoshinaga Steven K**; Lanier Lewis L
(Reprint

AUTHOR ADDRESS: Department of Microbiology and Immunology, Cancer Research
Institute, University of California, 513 Parnassus Avenue, HSE 420, Box
0414, San Francisco, CA, 94143-0414, USA**USA

JOURNAL: Journal of Immunology 169 (7): p3676-3685 October 1, 2002 2002

MEDIUM: print

ISSN: 0022-1767

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

6/3/5 (Item 5 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013775596 BIOSIS NO.: 200200369107

The **B7RP**-1/ICOS T-cell co-stimulation pathway

AUTHOR: **Yoshinaga Steven Kiyoshi** (Reprint); Khare Sanjay (Reprint);
Coccia Marco; Senaldi Giorgio (Reprint); Baikalov Claudia; Danilenko
Dimitry; Horan Tom; Zhang Ming (Reprint); Gaida Kevin (Reprint);
Whoriskey John (Reprint); Gresser Michael (Reprint); Ara Gulshan; Byrne
Fergus (Reprint); Kohno Hiko; Edwards Carl K (Reprint
AUTHOR ADDRESS: Inflammation, Amgen Inc., One Amgen Center Drive, Thousand
Oaks, CA, 91320, USA**USA

JOURNAL: FASEB Journal 16 (4): pA713 March 20, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Professional Research Scientists
on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002;
20020420

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

6/3/6 (Item 6 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013759254 BIOSIS NO.: 200200352765

Renal tubular epithelial expression of the costimulatory molecule

B7RP-1 (Inducible Costimulator Ligand)

AUTHOR: Wahl Patricia; Schoop Roland; Bilic Grozdana; Neuweiler Jorg; Le
Hir Michel; **Yoshinaga Steven K**; Wuthrich Rudolf P (Reprint

AUTHOR ADDRESS: Division of Nephrology, Cantonal Hospital,
Rorschacherstrasse 95, 9007, St. Gallen, Switzerland**Switzerland

JOURNAL: Journal of the American Society of Nephrology 13 (6): p1517-1526
June, 2002 2002

MEDIUM: print

ISSN: 1046-6673

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

6/3/7 (Item 7 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013736658 BIOSIS NO.: 200200330169

B7RP-1, a novel renal tubular epithelial antigen with costimulatory
function

AUTHOR: Wahl Patricia (Reprint); Bilic Grozdana (Reprint); Neuweiler Jorg;
Yoshinaga Steven K; Wuthrich Rudolf P (Reprint

AUTHOR ADDRESS: Division of Nephrology, Saint Gallen, Switzerland**
Switzerland

JOURNAL: Journal of the American Society of Nephrology 12 (Program and
Abstract Issue): p643A-644A September, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: ASN (American Society of Nephrology)/ISN (International
Society of Nephrology) World Congress of Nephrology San Francisco, CA, USA
October 10-17, 2001; 20011010

ISSN: 1046-6673

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

6/3/8 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013582313 BIOSIS NO.: 200200175824
Transgenic mice over-expressing the **B7** related protein-1 (**B7RP**
-1) develop an intestinal pathology similar to human Crohn's disease a
new mouse model of inflammatory bowel disease
AUTHOR: Byrne Fergus R (Reprint); Whoriskey John S; Sarmiento Ulla; Senaldi
Giorgio; Zhang Ming; Gaida Kevin; Danilenko Dimitry; **Yoshinaga Steven**
K
AUTHOR ADDRESS: Dept of Pathology, Amgen Inc, Thousand Oaks, CA, USA**USA
JOURNAL: Gastroenterology 120 (5 Supplement 1): pA.47 April, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: 102nd Annual Meeting of the American
Gastroenterological Association and Digestive Disease Week Atlanta,
Georgia, USA May 20-23, 2001; 20010520
SPONSOR: American Gastroenterological Association
American Association for the Study of Liver Diseases
American Society for Gastrointestinal Endoscopy
Society for Surgery of the Alimentary Tract
ISSN: 0016-5085
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

6/3/9 (Item 9 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0012911329 BIOSIS NO.: 200100083168
ICOS is essential for effective T-helper-cell responses
AUTHOR: Tafuri Anna; Shahinian Arda; Bladt Friedhelm; **Yoshinaga Steve**
K; Jordana Manel; Wakeham Andrew; Boucher Louis-Martin; Bouchard Denis
; Chan Vera S F; Duncan Gordon; Odermatt Bernhard; Ho Alexandra; Itie
Annick; Horan Tom; Whoriskey John S; Pawson Tony; Penninger Josef M;
Ohashi Pamela S; Mak Tak W (Reprint)
AUTHOR ADDRESS: Amgen Institute, 620 University Avenue, Toronto, ON, M5G
2C1, Canada**Canada
JOURNAL: Nature (London) 409 (6816): p105-109 4 January, 2001 2001
MEDIUM: print
ISSN: 0028-0836
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

6/3/10 (Item 10 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0012773038 BIOSIS NO.: 200000491351
Characterization of a new human **B7**-related protein: **B7RP-1** is
the ligand to the co-stimulatory protein ICOS
AUTHOR: **Yoshinaga Steven K** (Reprint); Zhang Ming; Pistillo Jeanne;
Horan Tom; Khare Sanjay D; Miner Kent; Sonnenberg Michael; Boone Tom;
Brankow David; Dai Tianang; Delaney John; Han Hong; Hui Ariela; Kohno
Tadahiko; Manoukian Raffi; Whoriskey John S; Coccia Marco A
AUTHOR ADDRESS: Exploratory Research, Amgen Inc., Thousand Oaks, CA, 91320,
USA**USA
JOURNAL: International Immunology 12 (10): p1439-1447 October, 2000 2000

MEDIUM: print
ISSN: 0953-8178
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

6/3/11 (Item 11 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0012473461 BIOSIS NO.: 200000191774

T-cell co-stimulation through **B7RP**-1 and ICOS

AUTHOR: **Yoshinaga Steven K** (Reprint); Whoriskey John S; Khare Sanjay
D; Sarmiento Ulla; Guo Jane; Horan Tom; Shih Grace; Zhang Ming; Coccia
Marco A; Kohno Tadahiko; Tafuri-Bladt Anna; Brankow David; Campbell
Pauline; Chang David; Chiu Laura; Dai Tianang; Duncan Gordon; Elliott
Gary S; Hui Ariela; McCabe Susan M; Scully Sheila; Shahinian Arda;
Shaklee Christine L; Van Gwyneth; Mak Tak W; Senaldi Giorgio

AUTHOR ADDRESS: Amgen Inc., One Amgen Center Drive, Thousand Oaks, CA,
91320, USA**USA

JOURNAL: Nature (London) 402 (6763): p827-832 Dec. 16, 1999 1999

MEDIUM: print

ISSN: 0028-0836

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

6/3/12 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

12462993 PMID: 12833154

Costimulation through the inducible costimulator ligand is essential for
both T helper and B cell functions in T cell-dependent B cell responses.

Mak Tak W; Shahinian Arda; **Yoshinaga Steve K**; Wakeham Andrew;
Boucher Louis-Martin; Pintilie Melania; Duncan Gordon; Gajewska Beata U;
Gronski Matthew; Eriksson Urs; Odermatt Bernhard; Ho Alexandra; Bouchard
Denis; Whoriskey John S; Jordana Manel; Ohashi Pamela S; Pawson Tony; Bladt
Friedhelm; Tafuri Anna

Advanced Medical Discovery Institute, and Ontario Cancer Institute,
Department of Medical Biophysics, University of Toronto, Toronto, Ontario
M5G 2C1, Canada. tmak@uhnres.utoronto.ca

Nature immunology (United States) Aug 2003, 4 (8) p765-72, ISSN
1529-2908 Journal Code: 100941354

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

? s (b7(w)L or b7(w)h2 or b7(w)H7 or bsl3 or pd(w)L2) and b7?

19041 B7
1970607 L
8 B7(W)L
19041 B7
76873 H2
42 B7(W)H2
19041 B7
13792 H7
0 B7(W)H7
11 BSL3
2463403 PD
19530 L2
116 PD(W)L2

23703 B7?

S7 112 (B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD(W)L2) AND B7?
? rd s7

...examined 50 records (50)

...examined 50 records (100)

...completed examining records

S8 66 RD S7 (unique items)

? s s8 and py<2002

Processing

Processing

66 S8

51170825 PY<2002

S9 15 S8 AND PY<2002

? t s9/7/all

9/7/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0013557974 BIOSIS NO.: 200200151485

The role of in vivo PD-1/PD-L1 interactions in syngeneic and allogeneic
antitumor responses in murine tumor models

AUTHOR: Zuberek Krystyna (Reprint); Runyon Kathlene (Reprint); Collins Mary
(Reprint); Leonard John P (Reprint); Dunussi-Joannopoulos Kyri (Reprint)

AUTHOR ADDRESS: Immunology, Genetics Institute/Wyeth-Ayerst Research,
Cambridge, MA, USA**USA

JOURNAL: Blood 98 (11 Part 2): p42b November 16, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of
Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001; 20011207

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: PD-1 is a transmembrane protein containing an immunoreceptor
tyrosine-based inhibitory motif, and is expressed on activated lymphoid
and myeloid cells. Studies using PD-1-deficient mice have shown that PD-1
is involved in the maintenance of peripheral self-tolerance by negatively
regulating immune responses. Two new members of the ***B7*** gene family,
PD-L1 and ***PD*** - ***L2***, have been identified as ligands for PD-1.
Engagement of PD-1 by PD-L1 inhibits T cell receptor-mediated
proliferation of T cells and cytokine secretion. We have demonstrated
that PD-L1 is constitutively expressed in murine tumor cells, and that
this expression is highly regulated in vitro by IFN-g. Therefore, we
speculated that in vivo PD-1/PD-L1 interactions may downregulate
antitumor immune responses leading to ineffective tumor
immunosurveillance. In this report we studied the role of in vivo
PD-1/PD-L1 interactions in various murine tumor models. We have used
either recombinant costimulatory fusion proteins for systemic treatment,
or retrovirally transduced tumor cells, co-expressing green fluorescent
protein (GFP) and PD-1 or PD-L1. Our results demonstrate: (i) systemic
treatment of MethA or MB49 inoculated mice with soluble PDL1-Fc fusion
protein (50ug/injection twice weekly, for 3 weeks) does not alter the
pattern of in vivo tumor growth as compared to treatment with control
IgG; (ii) treatment with PDL1-Fc or control IgG during the
priming/effector phase in a B16F1 vaccination model leads to 20%
protection against wild-type (wt) challenge; (iii) live wt or PD-L1
transduced MethA cells do not downregulate in vivo antitumor responses,
and are rejected by either naive allogeneic recipients (C57BL/6, SJL/J),
or by syngeneic recipients (Balb/c) with antitumor memory CTL;
similarly, PD-L1 expressing MethA cells cultured in vitro with allogeneic
T cells do not significantly downregulate T cell proliferation when

compared to GFP or PD-1 expressing MethA cells; (iv) mice vaccinated once with irradiated PDL1- or GFP-B16F1 cells and challenged a week later with live wt B16F1 cells show 20% protection; and (v) live wt B16F1, GFP-, and PD-L1-transduced B16F1 cells are rejected by syngeneic B cell-deficient C57BL/6 mice. Overall, our results suggest that in vivo PD-1/PD-L1 interactions do not have a clinically detectable downregulatory effect on immune mechanisms regulating tumor growth or tumor rejection.

9/7/2 (Item 2 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
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0013238309 BIOSIS NO.: 200100410148

PD-L2 is a second ligand for PD-1 and inhibits T cell activation

AUTHOR: Latchman Yvette; Wood Clive R; Chernova Tatyana; Chaudhary Divya; Borde Madhuri; Chernova Irene; Iwai Yoshiko; Long Andrew J; Brown Julia A; Nunes Raquel; Greenfield Edward A; Bourque Karen; Boussiotis Vassiliki A; Carter Laura L; Carreno Beatriz M; Malenkovich Nelly; Nishimura Hiroyuki; Okazaki Taku; Honjo Tasuku; Sharpe Arlene H; Freeman Gordon J (Reprint)

AUTHOR ADDRESS: Department of Adult Oncology, Department of Medicine, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, 02115, USA**USA

JOURNAL: Nature Immunology 2 (3): p261-268 March, 2001 2001

MEDIUM: print

ISSN: 1529-2908

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Programmed death 1 (PD-1)-deficient mice develop a variety of autoimmune-like diseases, which suggests that this immunoinhibitory receptor plays an important role in tolerance. We identify here PD-1 ligand 2 (**PD-L2**) as a second ligand for PD-1 and compare the function and expression of PD-L1 and **PD-L2**. Engagement of PD-1 by **PD-L2** dramatically inhibits T cell receptor (TCR)-mediated proliferation and cytokine production by CD4+ T cells. At low antigen concentrations, **PD-L2**-PD-1 interactions inhibit strong **B7**-CD28 signals. In contrast, at high antigen concentrations, **PD-L2**-PD-1 interactions reduce cytokine production but do not inhibit T cell proliferation. PD-L-PD-1 interactions lead to cell cycle arrest in G0/G1 but do not increase cell death. In addition, ligation of PD-1+TCR leads to rapid phosphorylation of SHP-2, as compared to TCR ligation alone. PD-L expression was up-regulated on antigen-presenting cells by interferon gamma treatment and was also present on some normal tissues and tumor cell lines. Taken together, these studies show overlapping functions of PD-L1 and **PD-L2** and indicate a key role for the PD-L-PD-1 pathway in regulating T cell responses.

9/7/3 (Item 3 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
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0013106826 BIOSIS NO.: 200100278665

PD-L2, a novel **B7** homologue, is a second ligand for PD-1 and inhibits T cell activation

AUTHOR: Latchman Yvette (Reprint); Wood Clive; Chernova Tatyana; Iwai Yoshiko; Malenkovich Nelly; Long Andrew; Bourque Karen; Boussiotis Vassiliki; Nishimura Hiroyuki; Honjo Tasuku; Sharpe Arlene (Reprint); Freeman Gordon

AUTHOR ADDRESS: Brigham and Womens Hospital and Harvard Medical School, 221
Longwood Ave, LMRC-5, Boston, MA, 02115, USA**USA
JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,
USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: PD-1 is a member of the immunoglobulin superfamily and CD28
homologue which contains an immunoreceptor tyrosine-based inhibitory
motif (ITIM), in its cytoplasmic tail. PD-1 deficient mice develop a
variety of autoimmune diseases suggesting that this immunoinhibitory
receptor plays an important role in tolerance. Recently, a ***B7***
homologue, PD-1 ligand 1 (PD-L1) has been identified as a ligand for
PD-1. Here we present the initial identification and characterization of
a novel B7 homologue, PD-L2, that is a second ligand
for PD-1, and compare the expression and function of PD-L1 and PD-
L2. Murine ***PD*** - ***L2*** shares 38% amino acid identity to
murine PD-L1. Distribution of human and murine ***PD*** - ***L2*** mRNAs in
normal tissues is similar to PD-L1 with high levels in placenta, and low
levels in spleen, lymph nodes, and thymus. In addition, some tissues,
such as human pancreas, lung and liver, expressed PD-L2 but
not PD-L1. ***PD*** - ***L2*** mRNA was not detected in unstimulated human
monocytes but was upregulated by IFN-gamma stimulation. The induction of
PD-L2 was slightly delayed in kinetics as compared to the
upregulation of PD-L1. Engagement of PD-1 by ***PD*** - ***L2***
dramatically inhibits TCR mediated proliferation and cytokine production
by CD4+ T cells. At low antigen concentrations, ***PD*** - ***L2*** :PD-1
interaction inhibits strong ***B7*** :CD28 signals. In contrast, at high
antigen concentrations, PD-L2:PD-1 interaction markedly
reduced cytokine production but does not inhibit T cell proliferation.
These results further demonstrate the capacity of the PD-L:PD-1 pathways
to antagonize a strong B7/CD28 signal when antigenic stimulation is
weak or limiting. PD-L:PD-1 interactions lead to cell cycle arrest in
G0/G1, but do not increase cell death. Taken together, these studies
demonstrate overlapping functions of PD-L1 and PD-L2 and
indicate a key role for the PD-L1/PD-L2:PD-1 pathway in
regulating T cell responses.

9/7/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0013106825 BIOSIS NO.: 200100278664

Expression and functional consequences of PD-1 ligands on natural APCS and
tumors

AUTHOR: Brown Julia A (Reprint); Dorfman David M; Butler Marcus (Reprint);
Nunes Raquel (Reprint); Latchman Yvette; Long Andrew J; Iwai Yoshiko;
Bourque Karen; Boussiotis Vassiliki A (Reprint); Chernova Tatyana
(Reprint); Nishimura Hiroyuki; Fitz Lori; Malenkovich Nelly (Reprint);
Honjo Tasuku; Wood Clive R; Nadler Lee M (Reprint); Sharpe Arlene H;
Freeman Gordon J (Reprint)

AUTHOR ADDRESS: Dana-Farber Cancer Institute, 44 Binney St, Boston, MA,
02115, USA**USA

JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,
USA March 31-April 04, 2001; 20010331

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: PD-1 is a cell surface receptor structurally related to CD28 and CTLA4 and is expressed on activated lymphoid and myeloid cells. PD-1 contains an ITIM motif and has a role in the negative regulation of immune responses. Mice deficient in PD-1 have multiple autoimmune features and appear to have a breakdown in peripheral tolerance. We have identified two novel members of the B7 gene family, PD-L1 and ***PD*** - ***L2***, as ligands of PD-1. Engagement of PD-1 by PD-Ligand dramatically inhibits TCR stimulated proliferation and cytokine production by T cells. Immunohistochemistry with PD-L1 specific mAb showed that PD-L1 is highly expressed in several organs including placental trophoblasts, myocardial endothelial lining, and thymic epithelial cells. PD-L1 is not expressed on unstimulated antigen presenting cells but is induced on dendritic cells and monocytes by pro-inflammatory cytokines such as interferon-g suggesting a role for PD-L1 in limiting T cell responses. PD-L1 is also expressed on some tumors including most lung and breast malignancies and many ovarian tumors, suggesting a role in attenuating immune attack against these tumors. Blockade of PD-L1 led to modestly increased proliferation and substantial increases in cytokine production. The relative levels of inhibitory PD-L1 and stimulatory B7-1 and B7-2 molecules on antigen presenting cells may determine the threshold between tolerance and autoimmunity. PD-Ligand expression on tumors may allow them to attenuate an anti-tumor immune response. This discovery extends the B7 family of molecules and their role in immunoregulation and identifies new targets for therapeutic modulation of the immune response.

9/7/5 (Item 5 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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0013106824 BIOSIS NO.: 200100278663

B7-H3, a novel member of the B7 family that costimulates T cell responses and selectively enhances interferon-gamma production

AUTHOR: Chapoval Andrei I (Reprint); Ni Jian; Lau Julie S (Reprint); Wilcox Ryan A (Reprint); Flies Dallas B (Reprint); Liu Ding; Dong Haidong (Reprint); Sica Gabriel L (Reprint); Zhu Gefeng (Reprint); Tamada Koji (Reprint); Chen Lieping (Reprint)

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JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA March 31-April 04, 2001; 20010331

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Costimulation, in addition to TCR engagement, is required for optimal activation of T cells. The most extensively studied costimulatory molecules belong to the B7 family, which includes well known (B7-1 and B7-2) and recently described (B7-H1 and ***B7*** - ***H2***) molecules. We discovered a novel member of the human B7 family, designated B7-H3 that shares 20-27% amino acid identity with other ***B7*** family members. ***B7*** -H3 mRNA was not detectable in peripheral blood mononuclear cells although it was found in various normal tissues and in several tumor lines. ***B7*** -H3 was expressed on the surface of GM-CSF derived macrophages and IFN-gamma

stimulated dendritic cells. In addition, stimulation by a combination of phorbol myristate acetate and ionomycin induces surface expression of ***B7*** -H3 on CD3+ T cells. Soluble ***B7*** -H3 protein bound a putative counter-receptor on PHA-activated T cells distinct from CD28, CTLA-4, ICOS, and PD-1. ***B7*** -H3 costimulated proliferation of both CD4+ and CD8+ T cells, enhanced the induction of cytotoxic T cells, and selectively enhanced IFN-gamma production in the presence of T cell receptor signaling. Thus, our results identified additional ***B7*** family molecule that may participate in the regulation of cell-mediated immune responses.

9/7/6 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0013106812 BIOSIS NO.: 200100278651
Costimulation of tumor immunity by **B7-H2**, a ligand for ICOS
AUTHOR: Wang Shengdian (Reprint); Zhu Gefeng (Reprint); Wilcox Ryan (Reprint); Chen Lieping (Reprint)
AUTHOR ADDRESS: Mayo Clinic, 200 First Street, SW, Rochester, MN, 55905, USA**USA
JOURNAL: FASEB Journal 15 (4): pA342 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Costimulatory interactions between the **B7** family ligands and their receptors play critical roles in the growth, differentiation, and death of T cells. We have recently identified a new member of ***B7*** family designated as ***B7*** - ***H2*** . Human ***B7*** - ***H2*** is a type 1 transmembrane protein with apprx24%, apprx21% and apprx21% amino acid identity to **B7-1**, **B7-2** and **B7-H1** respectively, but with apprx46% amino acid identity to mouse **B7h/B7RP-1**. FACS analysis showed that **B7-H2** protein is expressed on the surface of monocyte-derived immature dendritic cells. **B7-H2**Ig binds ICOS on activated T cells and costimulates T-cell proliferation in the presence of suboptimal cross-linking CD3. A moderate increase of IL-10 production was only observed in the culture when optimal doses, but not suboptimal doses of anti-CD3 mAb was used, whereas **B7-H2** costimulation moderately increased the production of IL-2 in the presence of suboptimal or optimal doses of CD3 signal. Administration of ***B7*** -H2Ig enhances CTL activity against E.G7 tumor cells and expands E.G7-specific CD8+ T cells in vivo. Our study identifies a putative ligand for ICOS T-cell costimulatory molecule and suggests a regulatory function of **B7-H2**/ICOS interaction in the cell-mediated tumor immunity.

9/7/7 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0013104890 BIOSIS NO.: 200100276729
Characterization of ICOS-ligand splice variants
AUTHOR: Ling Vincent (Reprint); Wu Paul W (Reprint); Miyashiro Joy S (Reprint); Marusic Suzana (Reprint); Finnerty Heather F (Reprint); Collins Mary (Reprint)

AUTHOR ADDRESS: Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA,
02140, USA**USA
JOURNAL: FASEB Journal 15 (4): pA342 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,
USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The process of immunological costimulation between antigen
presenting cells and T-cells is mediated by **B7/CD28** and
ICOS-ligand/ICOS receptor interactions. In this study, we describe the 3'
RACE cloning of a novel ICOS-ligand transcript variant. GL50-B, in
addition to the previously reported mouse ICOS-ligand GL50 (Genbank
AF199027). mGL50-B encodes a protein product with a divergent 27 amino
acid intracellular domain when compared to mGL50. Both mGL50 and mGL50-B
transfected cells exhibited binding to human and mouse ICOS-lg fusion
protein indicating that the alternate cytoplasmic domain of mGL50-B does
not prevent interactions with ICOS receptor. Whereas mGL50 hybridization
signal is detected in all tissues examined by RNA blot analysis, mGL50-B
transcripts were primarily detected in spleen, ES cell and embryonic
tissue samples with lower levels detected in heart and kidney samples.
Flow cytometry of Balb/C and RAG1 -/- mouse splenocyte subsets using
ICOS-Ig combined with RT-PCR analysis of either CD19+, CD4+, CD11b+ or
CD11c+ enriched cell populations demonstrated that freshly isolated
B-cells, T-cells, macrophage and dendritic cells express both GL50 and
GL50-B ICOS-ligand variants. Comparative analysis of the human
ICOS-ligand splice variants hGL50 (AF199028) and **B7-H2**
(AF289028) by RT-PCR revealed a broad tissue distribution of **B7-**
H2 transcripts while hGL50 transcripts were detected mainly in
lymph node, leukocyte and splenic RNA samples. The presence of multiple
ICOS-ligand splice variants in mouse and humans systems suggests that
tissue-specific splice variation may be a method of signal control in the
ICOS pathway of the immune system.

9/7/8 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0012796803 BIOSIS NO.: 200000515116
Costimulation of T cells by **B7-H2**, a **B7**-like molecule
that binds ICOS
AUTHOR: Wang Shengdian; Zhu Gefeng; Chapoval Andrei I; Dong Haidong; Tamada
Koji; Ni Jian; Chen Lieping (Reprint)
AUTHOR ADDRESS: Department of Immunology, Mayo Clinic, 200 First St SW,
Rochester, MN, 55905, USA**USA
JOURNAL: Blood 96 (8): p2808-2813 October 15, 2000 2000
MEDIUM: print
ISSN: 0006-4971
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: This report describes a new human **B7**-like gene designated
B7 - ***H2***. Cell surface expression of ***B7*** - ***H2***
protein
is detected in monocyte-derived immature dendritic cells. Soluble
B7-H2 and immunoglobulin (Ig) fusion protein, **B7-H2**Ig,
binds activated but not resting T cells and the binding is abrogated by
inducible costimulator Ig (ICOSIg), but not CTLA4Ig. In addition, ICOSIg

stains Chinese hamster ovary cells transfected with **B7-H2** gene. By suboptimal cross-linking of CD3, costimulation of T-cell proliferation by **B7-H2Ig** is dose-dependent and correlates with secretion of interleukin (IL)-2, whereas optimal CD3 ligation preferentially stimulates IL-10 production. The results indicate that *****B7*** - ***H2***** is a putative ligand for the ICOS T-cell molecule.

9/7/9 (Item 9 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0010521169 BIOSIS NO.: 199699155229
Allogeneic lymphocyte responses to **B7-1** expressing human cancer cell lines
AUTHOR: Dessureault Sophie; Gallinger Steven (Reprint)
AUTHOR ADDRESS: Mt. Sinai Hosp., 1225-600 University Ave., Toronto, ON M5G 1X5, Canada**Canada
JOURNAL: Journal of Surgical Research 64 (1): p42-48 1996 1996
ISSN: 0022-4804
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Recent studies suggest that expression of **B7-1** by tumor cells is effective at inducing antitumor immune responses. Our purpose was to transfect three human cancer cell lines (MEWO, WM35, and H125) with a **B7-1** expression plasmid and test the immunogenicity of these modified cancer cells using allogeneic human peripheral blood lymphocytes (PBLs). PBLs were tested in vitro for both proliferative and cytotoxic activity against parental and *****B7***** -transfected tumor cells. (3H)thymidine lymphocyte proliferation assays showed that PBLs incubated with **B7-1+** WM35 (major histocompatibility complex (MHC) class I-II- melanoma) demonstrated a substantial increase in T cell proliferation (P lt 0.0005), but PBLs incubated with *****B7***** -1MEWO (MHC class I-II melanoma) and H125 (MHC class I+II- lung adenosquamous carcinoma) did not. T cell-mediated cytotoxicity was not increased against **B7-1+** tumor cells: effector T lymphocytes primed against **B7-1+** tumor cells did not show any increase in cytolytic activity against 51Cr-labeled *****B7***** -1+ or *****B7***** -1 target cells. NK cells did not lyse MEWO cells, but they did kill H125 and WM35 targets. *****B7***** -1 expression on MEWO and WM35 cells did not result in enhanced lysis by NK cells, but NK cytotoxicity was enhanced by **B7-1** expression on H125 cells (P lt 0.01). The observation that NK cytotoxicity is enhanced by **B7-1+** H125 cells suggests that **B7-1/CD28** interactions may be important in NK cytotoxic activity. We conclude that *****B71***** -WM35 cells, which express both MHC molecules and antigenic epitopes, elicit an improved alloantigen-induced T cell proliferative response, presumably because they have the capacity to deliver an adequate antigen-specific signal which can be costimulated by *****B7***** -1/CD28 interaction.

9/7/10 (Item 10 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0010161812 BIOSIS NO.: 199698629645
Maturation of neonatal human CD4 T cells: III. Role of *****B7***** co-stimulation at priming
AUTHOR: Yang Liang-Peng; Demeure Christian E; Byun Dae-Gyoo; Vezzio Nadia; Delespesse Guy (Reprint)
AUTHOR ADDRESS: Allergy Res. Lab., Cent. Recherche Louis-Charles Simard, Notre-Dame Hosp., Univ. Montreal, 1560 Sherbrooke St. East, Montreal, Quebec H2L 4M1, Canada**Canada

JOURNAL: International Immunology 7 (12): p1987-1993 1995 **1995**
ISSN: 0953-8178
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: We previously reported that human naive CD4 T cells differentiate into effector cells producing type 1 (IL-2, IFN-gamma) and type 2 (IL-4, IL-5, IL-10) cytokines after priming with anti-CD3 mAb presented on irradiated CD32-transfected mouse L fibroblasts, in the absence of exogenous cytokine. Here we first show that the CD32 L fibroblasts act not only by cross-linking anti-CD3 mAb but also by providing a **B7**-mediated co-stimulation signal which is required for the activation of naive T cells. Using a selected anti-CD3 mAb (64.1) we next demonstrate that colligation of CD3 and CD28 with soluble mAb is sufficient to activate highly purified naive CD4 T cells for proliferation, IL-4 mRNA expression, IL-4 secretion, and maturation into IL-4- and IL-5-producing cells. Finally, we show that the intensity of *****B7***** co-stimulation at priming markedly affects the lymphokine-producing phenotype of primed cells. Indeed, cells primed on CD32- *****B7***** double L transfectants produce much more IL-4 and IL-5 and slightly less IFN-gamma than those primed on CD32 L cells. The enhanced IL-4/IL-5-producing capacity of cells primed on CD32-**B7** L fibroblasts may be related to increased IL-4 production during priming. It is suggested that the maturation of naive T cells along the T-h2 or T-h1 pathway may be regulated by the level of *****B7***** expressed on APC.

9/7/11 (Item 11 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0007103574 BIOSIS NO.: 199089021465
SYNTHESIS OF A7 **B7** DICARBAIN SULFIN AN ANALOGUE WITH A NONCLEAVABLE BOND BETWEEN A AND B-CHAIN II. SYNTHESIS OF THE A-CHAIN SEGMENTS
AUTHOR: VIDENOV G (Reprint); STOEVS S; BRANDENBURG D
AUTHOR ADDRESS: DEUTSCHES WOLFFORSCHUNGSINSTITUT AND DER TECHNISCHEN HOCHSCHULE AACHEN, VELTMANPLATZ 8, D-5100 AACHEN**GERMANY
JOURNAL: Biological Chemistry Hoppe-Seyler 370 (10): p1103-1112 **1989**
ISSN: 0177-3593
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: As part of the total synthesis of [A7,**B7**-L-L-2,7-diaminosuberoyl]-des-(B26-B30)-insulin B25-amide, an insulin analogue containing a non-cleavable bond between A- and B-chain, the chemical synthesis of the A-chain segment is described. The N-terminal sequence A(1-6), Boc-Gly-Ile-Val-Glu-(OBu)-Gln-Cys(SBu)-NH-NH₂, was synthesized in solution. The middle segment A(8-16), Ddz-Thr(Bu)-Ser(Bu)-Ile-Cys(SBu)-Ser(Bu)-Leu-Tyr-(Bu)-Gln-Leu-NH-NH₂, was obtained by solid phase synthesis according to the Fmoc strategy. The C-terminal segment A(17-21), Bpoc-Glu(OBu)-Asn-Tyr-Cys(Acm)-AsnOObu, was prepared in solution.

9/7/12 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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11189331 EMBASE No: 2001208376
Differential expression of inducible costimulator-ligand splice variants: Lymphoid regulation of mouse GL50-B and human GL50 molecules
Ling V.; Wu P.W.; Miyashiro J.S.; Marusic S.; Finnerty H.F.; Collins M.

Dr. V. Ling, Department of Immunology, Genetics Institute, 87
CambridgePark Drive, Cambridge, MA 02081 United States
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Journal of Immunology (J. IMMUNOL.) (United States) 15 JUN 2001,
166/12 (7300-7308)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 29

The process of immunological costimulation between APC and T cells is mediated by protein ligand:receptor interactions. To date, costimulatory receptors known to be expressed by T cells include the structurally related proteins CD28 and the inducible costimulator (ICOS). The ligands to human and mouse ICOS, human GL50 (hGL50), and mouse GL50 (mGL50) were recently cloned and demonstrated to have sequence similarity to the CD28 ligands

B7 -1 and ***B7*** -2. Examination of mGL50 cDNA transcripts by 3primeRACE revealed an alternatively spliced form, mGL50-B, that encoded a protein product with a divergent 27-aa intracellular domain. Both mGL50- and mGL50-B-transfected cells exhibited binding to human and mouse ICOS-Ig fusion protein, indicating that the alternate cytoplasmic domain of mGL50-B does not interfere with extracellular interactions with ICOS receptor. Flow cytometric and RT-PCR analysis of BALB/c and RAG1SUP-/- mice splenocytes demonstrate that freshly isolated B cells, T cells, macrophages, and dendritic cells express both splice variant forms of ICOS ligand. Comparative analyses with the human ICOS ligand splice variants hGL50 and B7-H2 indicate that differential splicing at the junction of cytoplasmic exon 6 and exon 7 may be a common method by which GL50-ICOS immunological costimulatory processes are regulated in vivo.

9/7/13 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
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07673780 EMBASE No: 1999136316
Enhancement of B7-1 (CD80) expression on B-lymphoma cells by irradiation
Seo A.; Ishikawa F.; Nakano H.; Nakazaki H.; Kobayashi K.; Kakiuchi T.
Dr. T. Kakiuchi, Department of Immunology, Toho University School of
Medicine, 5-21-16 Omori-nishi, Ota-ku, Tokyo 143-8540 Japan
Immunology (IMMUNOLOGY) (United Kingdom) 1999, 96/4 (642-648)
CODEN: IMMUA ISSN: 0019-2805
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 40

Irradiation of A20.2J mouse B-lymphoma cells enhanced their antigen-presenting ability to induce interleukin-2 (IL-2) production by 42-6A T cells specific for ovalbumin (OVA)inf 3inf 2inf 3inf -inf 3inf 3inf 9/I-A(d). Irradiated and fixed A20.2J cells were more efficient antigen-presenting cells (APC) to present OVAinf 3inf 2inf 3inf -inf 3inf 3inf 9 peptide than the unirradiated and fixed cells. Irradiation selectively increased the expression of B7-1 molecules, but not of the major histocompatibility complex class II molecules, B7-2, lymphocyte function-associated antigen-1, or intracellular adhesion molecule-1. Irradiation of A20.2J cells with 100 Gy followed by overnight incubation was optimal for the enhancement of ***B7*** -1 expression. Anti-B7-1 monoclonal antibody inhibited the irradiation-induced enhancement of APC function. Irradiation of A20.2J cells induced the accumulation of ***B7*** -1 mRNA. Thus, it was concluded that the enhancement of APC function by irradiation was due to the up-regulation of ***B7*** -1 molecules through the accumulation of its mRNA. Although partial inhibition of protein synthesis has been shown to enhance the

accumulation of B7-1 mRNA and its expression, irradiation did not decrease the protein synthesis in A20.2J cells. The incubation with irradiated A20.2J cells stimulated unirradiated A20.2J cells to increase ***B7*** -1 expression, suggesting that irradiation of A20.2J cells induced expression or secretion of some molecule(s) to enhance B7-1 expression.

9/7/14 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
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07459262 EMBASE No: 1998377904
L-selectin and beta7 integrin synergistically mediate lymphocyte migration to mesenteric lymph nodes
Wagner N.; Lohler J.; Tedder T.F.; Rajewsky K.; Muller W.; Steeber D.A.
N. Wagner, Institute for Genetics, University of Cologne, Weyertal 121, D-50937 Cologne Germany
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European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 1998, 28/11 (3832-3839)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 31

Mesenteric lymph nodes (MLN) drain the gut where nutritive antigens and pathogens are encountered by lymphocytes of the gut-associated lymphoid tissue. We sought to determine how lymphocytes enter the MLN by studying mice double deficient for beta7 integrins and L-selectin. ***B7*** / ***L*** -selectin double-deficient lymphocytes did not migrate into MLN. Most importantly, MLN formation was drastically impaired in beta7/L-selectin double-deficient mice. Lymphocyte numbers in MLN from beta7/L-selectin double-deficient mice were tenfold reduced compared to control mice. A high percentage of the few lymphocytes still detected in MLN from beta7/L-selectin double-deficient mice were CD44(hi)CD18(hi), suggesting alternate migration pathways independent of L-selectin and beta7 integrin for these cells. We conclude that the combination of both molecules, L-selectin and beta7 integrin, is indispensable for MLN formation and that these molecules may mediate lymphocyte migration to MLN in a sequential and synergistical manner.

9/7/15 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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134218032 CA: 134(16)218032u PATENT
Cloning and characterization of a B7 homolog 3 (B7-H3) protein and its therapeutic application
INVENTOR(AUTHOR): Ruben, Steven M.; Chen, Lieping; Baker, Kevin; Ni, Jian
LOCATION: USA
ASSIGNEE: Human Genome Sciences, Inc.; Mayo Clinic
PATENT: PCT International ; WO 200118021 A1 DATE: 20010315
APPLICATION: WO 2000US23792 (20000830) *US PV152317 (19990903) *US PV200346 (20000428)
PAGES: 252 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07H-021/04A; C12N-001/21B; C12N-015/00B; C12N-015/63B; C07K-014/46B; C07K-014/52B; A61K-038/00B; C12Q-001/68B; G01N-033/53B DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH

; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

SECTION:

CA203003 Biochemical Genetics

CA201XXX Pharmacology

CA213XXX Mammalian Biochemistry

CA215XXX Immunochemistry

IDENTIFIERS: human B7 homolog 3 B7H3 cDNA sequence, T cell activation costimulatory receptor B7H3

DESCRIPTORS:

T cell(lymphocyte)...

activation in the presence of B7-H3; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Antigens...

B7-H2/GL50; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Antigens...

B7-H3, of human; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Immunoglobulins...

B7-H3Ig, for T cell activation; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Antigens...

B7-1H; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Glycoproteins,specific or class...

CD40-L (antigen CD40 ligand), receptor for, costimulation in the presence of B7-H3; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Antibodies... CD80(antigen)... CD86(antigen)... Cell proliferation... Drug screening... Gene therapy... Molecular cloning... Nucleic acid hybridization... Primers(nucleic acid)... Probes(nucleic acid)... TCR(T cell receptors)...

cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

cDNA sequences... Gene,animal...

for Antigen B7-H3, of human; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

TCR(T cell receptors)...

for OX40, costimulation in the presence of B7-H3; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Cytokines...

inflammatory; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Diagnosis...

mol.; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Protein sequences...

of Antigen B7-H3, of human; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

mRNA...

of B7-H3, tissue distribution; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

Receptors...

4-1BB, costimulation in the presence of B7-H3; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

CAS REGISTRY NUMBERS:

328597-16-6P amino acid sequence; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

328596-73-2 nucleotide sequence; cloning and characterization of a B7 homolog 3 (B7-H3) protein and therapeutic application

229477-44-5 328596-22-1 unclaimed nucleotide sequence; cloning and characterization of a B7 homolog 3 (B7-H3) protein and its therapeutic application
 328601-76-9 329752-99-0 329753-00-6 unclaimed protein sequence; cloning and characterization of a B7 homolog 3 (B7-H3) protein and its therapeutic application
 328529-70-0 329685-07-6 329753-02-8 329753-03-9 329753-04-0 329753-05-1 unclaimed sequence; cloning and characterization of a B7 homolog 3 (B7-H3) protein and its therapeutic application

? ds

Set	Items	Description
S1	30	E3-E6
S2	29	RD S1 (unique items)
S3	28	E1-E5
S4	0	(S1 OR S3) AND (B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD-(W)L2)
S5	17	(S1 OR S3) AND B7?
S6	12	RD S5 (unique items)
S7	112	(B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD(W)L2) AND B7?
S8	66	RD S7 (unique items)
S9	15	S8 AND PY<2002

? t s8/3/all

8/3/1 (Item 1 from file: 5)
 DIALOG(R)File 5:Biosis Previews(R)
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0014842386 BIOSIS NO.: 200400210019
 The low affinity IgE receptor, CD23, expressed on antigen presenting cells alters T-cell response to allergen.
 AUTHOR: Poole J A (Reprint); Meng J (Reprint); Cao L (Reprint); Bates C (Reprint); Rosenwasser L J (Reprint)
 AUTHOR ADDRESS: Allergy and Immunology, National Jewish Medical and Research Center, Denver, CO, USA**USA
 JOURNAL: Journal of Allergy and Clinical Immunology 113 (2 Supplement): p S210 February 2004 2004
 MEDIUM: print
 CONFERENCE/MEETING: 60th Annual Meeting of the American Academy of Allergy, Asthma and Immunology (AAAAI) San Francisco, CA, USA March 19-23, 2004; 20040319
 SPONSOR: American Academy of Allergy, Asthma and Immunology
 ISSN: 0091-6749
 DOCUMENT TYPE: Meeting; Meeting Abstract
 RECORD TYPE: Citation
 LANGUAGE: English

8/3/2 (Item 2 from file: 5)
 DIALOG(R)File 5:Biosis Previews(R)
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0014794963 BIOSIS NO.: 200400162304
 Expression and role of B7 family molecules, B7-H1 and B7-***H2***, in patients with acute myeloid leukemia.
 AUTHOR: Tamura Hideto (Reprint); Ogata Kiyoyuki (Reprint); Yokose Norio (Reprint); Nakamura Kyoko (Reprint); Shioi Yumiko (Reprint); Hyodo Hideya (Reprint); Tachibana Mikiko (Reprint); Dong Haidong; Wang Shengdian; Chen Lieping (Reprint); Dan Kazuo
 AUTHOR ADDRESS: Third Department of Internal Medicine, Nippon Medical School, Tokyo, Japan**Japan
 JOURNAL: Blood 102 (11): p234b November 16, 2003 2003
 MEDIUM: print
 CONFERENCE/MEETING: 45th Annual Meeting of the American Society of

Hematology San Diego, CA, USA December 06-09, 2003; 20031206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014774682 BIOSIS NO.: 200400155439
B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism.
AUTHOR: Matsumoto Koichiro; Inoue Hiromasa (Reprint); Nakano Takako; Tsuda Miyuki; Yoshiura Yuki; Fukuyama Satoru; Tsushima Fumihiko; Hoshino Tomoaki; Aizawa Hisamichi; Akiba Hisaya; Pardoll Drew; Hara Nobuyuki; Yagita Hideo; Azuma Miyuki; Nakanishi Yoichi
AUTHOR ADDRESS: Graduate School of Medical Sciences, Research Institute for Diseases of the Chest, Kyushu University, 3-1-1 Maidashi, Higashi-ku, Fukuoka, 812-8582, Japan**Japan
AUTHOR E-MAIL ADDRESS: inoue@kokyu.med.kyushu-u.ac.jp
JOURNAL: Journal of Immunology 172 (4): p2530-2541 February 15, 2004 2004
MEDIUM: print
ISSN: 0022-1767 (ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014766525 BIOSIS NO.: 200400133879
Costimulatory molecule expression by pediatric pre-B acute lymphoblastic leukemia cells.
AUTHOR: Reid Gregor S D (Reprint); Wynne Kristin (Reprint); Terrett Luke (Reprint); Grubb Stacey (Reprint); Schultz Kirk R (Reprint)
AUTHOR ADDRESS: Pediatrics, BC Children's Hospital and UBC, Vancouver, BC, Canada**Canada
JOURNAL: Blood 102 (11): p378a November 16, 2003 2003
MEDIUM: print
CONFERENCE/MEETING: 45th Annual Meeting of the American Society of Hematology San Diego, CA, USA December 06-09, 2003; 20031206
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Poster; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014716299 BIOSIS NO.: 200400085068
B7-H1 and **B7-H2** expression and regulation in human placental trophoblast cells.
AUTHOR: Petroff Margaret G (Reprint)
AUTHOR ADDRESS: Department of Anatomy and Cell Biology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS, 66160, USA**USA

JOURNAL: FASEB Journal 17 (7): pC318 April 14, 2003 2003
MEDIUM: print
CONFERENCE/MEETING: 90th Anniversary Annual Meeting of the American
Association of Immunologists Denver, CO, USA May 06-10, 2003; 20030506
SPONSOR: American Association of Immunologists
ISSN: 0892-6638 _(ISSN print)
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

8/3/6 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0014661173 BIOSIS NO.: 200400031930
BLOCKADE OF PD-L1, BUT NOT PD-L2 SUPPRESSES THE DEVELOPMENT OF
CHRONIC INTESTINAL INFLAMMATION.
AUTHOR: Kanai Takanori (Reprint); Totsuka Teruji; Uraushihara Koji; Makita
Shin; Iiyama Ryoichi; Tamura Miho; Nakamura Tetsuya; Hibi Toshifumi;
Fukushima Tsuneo; Yagita Hideo; Azuma Miyuki; Chen Lieping; Watanabe
Mamoru
AUTHOR ADDRESS: Tokyo, Japan**Japan
JOURNAL: Digestive Disease Week Abstracts and Itinerary Planner 2003 p
Abstract No. T1103 2003 2003
MEDIUM: e-file
CONFERENCE/MEETING: Digestive Disease 2003 FL, Orlando, USA May 17-22,
2003; 20030517
SPONSOR: American Association for the Study of Liver Diseases
American Gastroenterological Association
American Society for Gastrointestinal Endoscopy
Society for Surgery of the Alimentary Tract
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Abstract
LANGUAGE: English

8/3/7 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014649374 BIOSIS NO.: 200400016358
Blockade of B7-H1 suppresses the development of chronic intestinal
inflammation.
AUTHOR: Kanai Takanori (Reprint); Totsuka Teruji; Uraushihara Koji; Makita
Shin; Nakamura Tetsuya; Koganei Kazutaka; Fukushima Tsuneo; Akiba Hisaya;
Yagita Hideo; Okumura Ko; Machida Utako; Iwai Hideyuki; Azuma Miyuki;
Chen Lieping; Watanabe Mamoru
AUTHOR ADDRESS: Department of Gastroenterology and Hepatology, Graduate
School, Tokyo Medical and Dental University, 1-5-45 Yushima, Bunkyo-ku,
Tokyo, 113-8519, Japan**Japan
AUTHOR E-MAIL ADDRESS: taka.gast@tmd.ac.jp
JOURNAL: Journal of Immunology 171 (8): p4156-4163 October 15, 2003 2003
MEDIUM: print
ISSN: 0022-1767 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/8 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014622434 BIOSIS NO.: 200300573111
THE EXPRESSION OF CO-STIMULATORY MOLECULES **B7H** AND **B7-H1** ON
COLONIC EPITHELIAL CELLS AND THEIR FUNCTIONAL ROLE IN T CELL ACTIVATION.
AUTHOR: Nakazawa Atsushi (Reprint); Dotan Iris; Brimnes Jens; Allez
Matthieu; Azuma Miyuki; Mayer Lloyd
AUTHOR ADDRESS: New York, NY, USA**USA
JOURNAL: Digestive Disease Week Abstracts and Itinerary Planner 2003 p
Abstract No. S1119 2003 2003
MEDIUM: e-file
CONFERENCE/MEETING: Digestive Disease 2003 FL, Orlando, USA May 17-22,
2003; 20030517
SPONSOR: American Association for the Study of Liver Diseases
American Gastroenterological Association
American Society for Gastrointestinal Endoscopy
Society for Surgery of the Alimentary Tract
DOCUMENT TYPE: Meeting; Meeting Poster; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/9 (Item 9 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014594697 BIOSIS NO.: 200300551128
Endothelial expression of PD-L1 and **PD-L2** down-regulates CD8+ T
cell activation and cytolysis.
AUTHOR: Rodig Nancy; Ryan Timothy; Allen Jessica A; Pang Hong; Grabie Nir;
Chernova Tatyana; Greenfield Edward A; Liang Spencer C; Sharpe Arlene H;
Lichtman Andrew H (Reprint); Freeman Gordon J
AUTHOR ADDRESS: Department of Pathology, Brigham and Women's Hospital, 75
Francis St, Boston, MA, 02115, USA**USA
AUTHOR E-MAIL ADDRESS: alichtman@rics.bwh.harvard.edu
JOURNAL: European Journal of Immunology 33 (11): p3117-3126 November 2003
2003
MEDIUM: print
ISSN: 0014-2980 (ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/10 (Item 10 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0014569419 BIOSIS NO.: 200300524316
Preferential contribution of **B7-H1** to programmed death-1-mediated
regulation of hapten-specific allergic inflammatory responses.
AUTHOR: Tsushima Fumihiko; Iwai Hideyuki; Otsuki Noriko; Abe Masaaki;
Hirose Sachiko; Yamazaki Tomohide; Akiba Hisaya; Yagita Hideo; Takahashi
Yuzo; Omura Ken; Okumura Ko; Azuma Miyuki (Reprint)
AUTHOR ADDRESS: Department of Molecular Immunology, Graduate School, Tokyo
Medical and Dental University, 1-5-45 Yushima, Bunkyo-ku, Tokyo,
113-8549, Japan**Japan
AUTHOR E-MAIL ADDRESS: miyuki.mim@tmd.ac.jp
JOURNAL: European Journal of Immunology 33 (10): p2773-2782 October 2003
2003
MEDIUM: print
ISSN: 0014-2980 (ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/11 (Item 11 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014569411 BIOSIS NO.: 200300524308
Regulation of PD-1, PD-L1, and **PD-L2** expression during normal
and autoimmune responses.
AUTHOR: Liang Spencer C; Latchman Yvette E; Buhlmann Janet E; Tomczak
Michal F; Horwitz Bruce H; Freeman Gordon J; Sharpe Arlene H (Reprint)
AUTHOR ADDRESS: Eugene Braunwald Research Center, 221 Longwood Avenue,
Boston, MA, 02115, USA**USA
AUTHOR E-MAIL ADDRESS: asharpe@rics.bwh.harvard.edu
JOURNAL: European Journal of Immunology 33 (10): p2706-2716 October 2003
2003
MEDIUM: print
ISSN: 0014-2980 (ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/12 (Item 12 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014568935 BIOSIS NO.: 200300537654
B7-H2 nucleic acids, members of the **B7** family
AUTHOR: Coyle Anthony J (Reprint); Fraser Christopher C; Manning Stephen
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1275 (3): Oct. 21, 2003 2003
MEDIUM: e-file
PATENT NUMBER: US 6635750 PATENT DATE GRANTED: October 21, 2003 20031021
PATENT CLASSIFICATION: 536-235 PATENT ASSIGNEE: Millennium
Pharmaceuticals, Inc. PATENT COUNTRY: USA
ISSN: 0098-1133 (ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

8/3/13 (Item 13 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014554053 BIOSIS NO.: 200300522772
B7-H2 Polypeptides
AUTHOR: Coyle Anthony J (Reprint); Fraser Christopher C; Manning Stephen
AUTHOR ADDRESS: Boston, MA, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1275 (1): Oct. 7, 2003 2003
MEDIUM: e-file
PATENT NUMBER: US 6630575 PATENT DATE GRANTED: October 07, 2003 20031007
PATENT CLASSIFICATION: 530-350 PATENT ASSIGNEE: Millennium
Pharmaceuticals, Inc. PATENT COUNTRY: USA
ISSN: 0098-1133 (ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

8/3/14 (Item 14 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014523770 BIOSIS NO.: 200300477725

Differential binding properties of B7-H1 and B7-DC to programmed death-1.

AUTHOR: Youngnak Pornpan; Kozono Yuko (Reprint); Kozono Haruo; Iwai Hideyuki; Otsuki Noriko; Jin Hisayo; Omura Ken; Yagita Hideo; Pardoll Drew M; Chen Lieping; Azuma Miyuki

AUTHOR ADDRESS: Department of Molecular Immunology, Graduate School, Tokyo Medical and Dental University, 1-5-45 Yushima, Bunkyo-ku, Tokyo, 113-8549, Japan**Japan

AUTHOR E-MAIL ADDRESS: yuko.mim@tmd.ac.jp

JOURNAL: Biochemical and Biophysical Research Communications 307 (3): p 672-677 August 1, 2003 2003

MEDIUM: print

ISSN: 0006-291X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/15 (Item 15 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0014479966 BIOSIS NO.: 200300437000

Mouse ***B7*** -H3 induces antitumor immunity.

AUTHOR: Sun X; Vale M; Leung E; Kanwar J R; Gupta R; Krissansen G W (Reprint)

AUTHOR ADDRESS: Department of Molecular Medicine and Pathology, Faculty of Medicine and Health Science, University of Auckland, Auckland, New Zealand**New Zealand

JOURNAL: Gene Therapy 10 (20): p1728-1734 September 2003 2003

MEDIUM: print

ISSN: 0969-7128 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/16 (Item 16 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0014441684 BIOSIS NO.: 200300400403

Impaired germinal center formation and recall T-cell-dependent immune responses in mice lacking the costimulatory ligand ***B7*** - ***H2*** .

AUTHOR: Wong Siew-Cheng; Oh Edwin; Ng Chee-Hoe; Lam Kong-Peng (Reprint)

AUTHOR ADDRESS: Institute of Molecular and Cell Biology, 30 Medical Dr, Singapore, 117609, Singapore**Singapore

AUTHOR E-MAIL ADDRESS: mcblamkp@imcb.nus.edu.sg

JOURNAL: Blood 102 (4): p1381-1388 August 15, 2003 2003

MEDIUM: print

ISSN: 0006-4971

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/17 (Item 17 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0014380571 BIOSIS NO.: 200300337314

PD-1 Engagement Provides an Inhibitory Signal Which Downregulates T Cell

Alloresponses In Vivo.

AUTHOR: Blazar Bruce R (Reprint); Carreno Beatriz M (Reprint);
Panoskaltsis-Mortari Angela (Reprint); Carter Laura J (Reprint); Iwai
Yoshiko (Reprint); Yagita Hideo (Reprint); Nishimura Hiroyuki (Reprint);
Taylor Patricia A (Reprint)

AUTHOR ADDRESS: Pediatrics BMT, Univ. of Minn Cancer Center, Mpls, MN, USA
**USA

JOURNAL: Blood 100 (11): pAbstract No. 261 November 16, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: 44th Annual Meeting of the American Society of
Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

8/3/18 (Item 18 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0014341920 BIOSIS NO.: 200300299739

Expression of the costimulatory molecule **B7-H2** (inducible
costimulator ligand) by human airway epithelial cells.

AUTHOR: Kurosawa Shin; Myers Allen C; Chen Lieping; Wang Shengdian; Ni Jian
; Plitt James R; Heller Nicola M; Bochner Bruce S; Schleimer Robert P
(Reprint)

AUTHOR ADDRESS: Johns Hopkins Asthma and Allergy Center, 5501 Hopkins
Bayview Circle, Room 3A.62, Baltimore, MD, 21224, USA**USA

AUTHOR E-MAIL ADDRESS: rschleim@jhmi.edu

JOURNAL: American Journal of Respiratory Cell and Molecular Biology 28 (5)
): p563-573 May 2003 2003

MEDIUM: print

ISSN: 1044-1549 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/19 (Item 19 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0014104922 BIOSIS NO.: 200300063641

A cell-based artificial antigen-presenting cell coated with anti-CD3 and
CD28 antibodies enables rapid expansion and long-term growth of CD4 T
lymphocytes.

AUTHOR: Thomas Anna K; Maus Marcela V; Shalaby Waleed S; June Carl H; Riley
James L (Reprint)

AUTHOR ADDRESS: Abramson Family Cancer Research Institute, University of
Pennsylvania, 421 Curie Boulevard, 508 BRB II/III, Philadelphia, PA,
19104, USA**USA

AUTHOR E-MAIL ADDRESS: rileyj@mail.med.upenn.edu

JOURNAL: Clinical Immunology (Orlando) 105 (3): p259-272 December 2002
2002

MEDIUM: print

ISSN: 1521-6616 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/20 (Item 20 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014088084 BIOSIS NO.: 200300045433
Programmed death-1 targeting can promote allograft survival.
AUTHOR: Ozkaynak Engin; Wang Liqing; Goodearl Andrew; McDonald Kevin; Qin Shixin; O'Keefe Theresa; Duong Thao; Smith Tammy; Gutierrez-Ramos Jose-Carlos; Rottman James B; Coyle Anthony J; Hancock Wayne W (Reprint)
AUTHOR ADDRESS: Department of Pathology and Laboratory Medicine, Children's Hospital of Philadelphia, 3615 Civic Center Boulevard, 807B Abramson Research Center, Philadelphia, PA, 19104-4318, USA**USA
AUTHOR E-MAIL ADDRESS: whancock@mail.med.upenn.edu
JOURNAL: Journal of Immunology 169 (11): p6546-6553 December 1, 2002 2002
MEDIUM: print
ISSN: 0022-1767 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/21 (Item 21 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014075105 BIOSIS NO.: 200300033824
Expression of programmed death 1 ligands by murine T cells and APC.
AUTHOR: Yamazaki Tomohide; Akiba Hisaya; Iwai Hideyuki; Matsuda Hironori; Aoki Mami; Tanno Yuka; Shin Tahiro; Tsuchiya Haruo; Pardoll Drew M; Okumura Ko; Azuma Miyuki; Yagita Hideo (Reprint)
AUTHOR ADDRESS: Department of Immunology, Juntendo University School of Medicine, 2-1-1 Hongo, Bunkyo-ku, Tokyo, 113-8421, Japan**Japan
AUTHOR E-MAIL ADDRESS: hyagita@med.juntendo.ac.jp
JOURNAL: Journal of Immunology 169 (10): p5538-5545 November 15, 2002 2002
MEDIUM: print
ISSN: 0022-1767 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/22 (Item 22 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014029550 BIOSIS NO.: 200200623061
T lymphocytes express B7 family molecules following interaction with dendritic cells and acquire bystander costimulatory properties
AUTHOR: Ferlazzo Guido (Reprint); Semino Claudia; Meta Maurizio; Procopio Francesco; Morandi Barbara; Melioli Giovanni
AUTHOR ADDRESS: Laboratorio di Immunoterapia, Unita di Immunologia, Istituto Nazionale per la Ricerca sul Cancro, c/o CBA, Largo Rosanna Benzi, 10, I-16132, Genova, Italy**Italy
JOURNAL: European Journal of Immunology 32 (11): p3092-3101 November, 2002 2002
MEDIUM: print
ISSN: 0014-2980
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/23 (Item 23 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013775582 BIOSIS NO.: 200200369093

Blockade of PD-1 Ligands on dendritic cells enhances T cell activation and cytokine production

AUTHOR: Brown Julia A (Reprint); Chernova Tatyana (Reprint); Dorfman David M; Boussiotis Vassiliki A (Reprint); Wood Clive R; Freeman Gordon J (Reprint)

AUTHOR ADDRESS: Adult Oncology, Dana Farber Cancer Institute, 44 Binney St., Boston, MA, 02115, USA**USA

JOURNAL: FASEB Journal 16 (4): pA710 March 20, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002; 20020420

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

8/3/24 (Item 24 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013750445 BIOSIS NO.: 200200343956

Expression of the costimulatory molecule B7-H2 by human airway epithelial cells

AUTHOR: Kurosawa Shin (Reprint); Myers Allen C (Reprint); Chen Lieping; Ni Jian; Plitt James R (Reprint); Heller Nicola M (Reprint); Bochner Bruce S (Reprint); Schleimer Robert P (Reprint)

AUTHOR ADDRESS: Johns Hopkins Asthma and Allergy Center, 5501 Hopkins Bayview Circle, Baltimore, MD, 21224, USA**USA

JOURNAL: FASEB Journal 16 (4): pA676 March 20, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002; 20020420

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

8/3/25 (Item 25 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013739726 BIOSIS NO.: 200200333237

Negative co-receptors on lymphocytes

AUTHOR: Greenwald Rebecca J (Reprint); Latchman Yvette E (Reprint); Sharpe Arlene H (Reprint)

AUTHOR ADDRESS: Immunology Research Division, Department of Pathology, Brigham and Women's Hospital, 221 Longwood Avenue, Boston, MA, 02115, USA**USA

JOURNAL: Current Opinion in Immunology 14 (3): p391-396 June, 2002 2002

MEDIUM: print

ISSN: 0952-7915

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Citation

LANGUAGE: English

8/3/26 (Item 26 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013739725 BIOSIS NO.: 200200333236

The right place at the right time: Novel **B7** family members regulate effector T cell responses

AUTHOR: Liang Linda (Reprint); Sha William C (Reprint)

AUTHOR ADDRESS: Division of Immunology, University of California, Berkeley, 441 Life Sciences Addition, Berkeley, CA, 94720, USA**USA

JOURNAL: Current Opinion in Immunology 14 (3): p384-390 June, 2002 2002

MEDIUM: print

ISSN: 0952-7915

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Citation

LANGUAGE: English

8/3/27 (Item 27 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013627872 BIOSIS NO.: 200200221383

PD-1:PD-L inhibitory pathway affects both CD4+ and CD8+ T cells and is overcome by IL-2

AUTHOR: Carter Laura L (Reprint); Fouser Lynette A; Jussif Jason; Fitz Lori; Deng Bijia; Wood Clive R; Collins Mary; Honjo Tasuku; Freeman Gordon J; Carreno Beatriz M

AUTHOR ADDRESS: Wyeth-Genetics Institute Inc., 200 Cambridge Park Drive, Cambridge, MA, 02140, USA**USA

JOURNAL: European Journal of Immunology 32 (3): p634-643 March, 2002 2002

MEDIUM: print

ISSN: 0014-2980

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/28 (Item 28 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013557974 BIOSIS NO.: 200200151485

The role of in vivo PD-1/PD-L1 interactions in syngeneic and allogeneic antitumor responses in murine tumor models

AUTHOR: Zuberek Krystyna (Reprint); Runyon Kathlene (Reprint); Collins Mary (Reprint); Leonard John P (Reprint); Dunussi-Joannopoulos Kyri (Reprint)

AUTHOR ADDRESS: Immunology, Genetics Institute/Wyeth-Ayerst Research, Cambridge, MA, USA**USA

JOURNAL: Blood 98 (11 Part 2): p42b November 16, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001; 20011207

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

8/3/29 (Item 29 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013238309 BIOSIS NO.: 200100410148

PD-L2 is a second ligand for PD-1 and inhibits T cell

activation

AUTHOR: Latchman Yvette; Wood Clive R; Chernova Tatyana; Chaudhary Divya;
Borde Madhuri; Chernova Irene; Iwai Yoshiko; Long Andrew J; Brown Julia A
; Nunes Raquel; Greenfield Edward A; Bourque Karen; Boussiotis Vassiliki
A; Carter Laura L; Carreno Beatriz M; Malenkovich Nelly; Nishimura
Hiroyuki; Okazaki Taku; Honjo Tasuku; Sharpe Arlene H; Freeman Gordon J
(Reprint)

AUTHOR ADDRESS: Department of Adult Oncology, Department of Medicine,
Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, 02115,
USA**USA

JOURNAL: Nature Immunology 2 (3): p261-268 March, 2001 2001

MEDIUM: print

ISSN: 1529-2908

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

8/3/30 (Item 30 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013106826 BIOSIS NO.: 200100278665

PD-L2, a novel **B7** homologue, is a second ligand for PD-1
and inhibits T cell activation

AUTHOR: Latchman Yvette (Reprint); Wood Clive; Chernova Tatyana; Iwai
Yoshiko; Malenkovich Nelly; Long Andrew; Bourque Karen; Boussiotis
Vassiliki; Nishimura Hiroyuki; Honjo Tasuku; Sharpe Arlene (Reprint);
Freeman Gordon

AUTHOR ADDRESS: Brigham and Womens Hospital and Harvard Medical School, 221
Longwood Ave, LMRC-5, Boston, MA, 02115, USA**USA

JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,
USA March 31-April 04, 2001; 20010331

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

8/3/31 (Item 31 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0013106825 BIOSIS NO.: 200100278664

Expression and functional consequences of PD-1 ligands on natural APCs and
tumors

AUTHOR: Brown Julia A (Reprint); Dorfman David M; Butler Marcus (Reprint);
Nunes Raquel (Reprint); Latchman Yvette; Long Andrew J; Iwai Yoshiko;
Bourque Karen; Boussiotis Vassiliki A (Reprint); Chernova Tatyana
(Reprint); Nishimura Hiroyuki; Fitz Lori; Malenkovich Nelly (Reprint);
Honjo Tasuku; Wood Clive R; Nadler Lee M (Reprint); Sharpe Arlene H;
Freeman Gordon J (Reprint)

AUTHOR ADDRESS: Dana-Farber Cancer Institute, 44 Binney St, Boston, MA,
02115, USA**USA

JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies
for Experimental Biology on Experimental Biology 2001 Orlando, Florida,
USA March 31-April 04, 2001; 20010331

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract
LANGUAGE: English

8/3/32 (Item 32 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013106824 BIOSIS NO.: 200100278663
B7-H3, a novel member of the **B7** family that costimulates T cell responses and selectively enhances interferon-gamma production
AUTHOR: Chapoval Andrei I (Reprint); Ni Jian; Lau Julie S (Reprint); Wilcox Ryan A (Reprint); Flies Dallas B (Reprint); Liu Ding; Dong Haidong (Reprint); Sica Gabriel L (Reprint); Zhu Gefeng (Reprint); Tamada Koji (Reprint); Chen Lieping (Reprint)
AUTHOR ADDRESS: Mayo Clinic, 200 First Street SW, Rochester, MN, 55905, USA
**USA
JOURNAL: FASEB Journal 15 (4): pA345 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/33 (Item 33 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013106812 BIOSIS NO.: 200100278651
Costimulation of tumor immunity by **B7-H2**, a ligand for ICOS
AUTHOR: Wang Shengdian (Reprint); Zhu Gefeng (Reprint); Wilcox Ryan (Reprint); Chen Lieping (Reprint)
AUTHOR ADDRESS: Mayo Clinic, 200 First Street, SW, Rochester, MN, 55905, USA**USA
JOURNAL: FASEB Journal 15 (4): pA342 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/34 (Item 34 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013104890 BIOSIS NO.: 200100276729
Characterization of ICOS-ligand splice variants
AUTHOR: Ling Vincent (Reprint); Wu Paul W (Reprint); Miyashiro Joy S (Reprint); Marusic Suzana (Reprint); Finnerty Heather F (Reprint); Collins Mary (Reprint)
AUTHOR ADDRESS: Genetics Institute, 87 Cambridge Park Drive, Cambridge, MA, 02140, USA**USA
JOURNAL: FASEB Journal 15 (4): pA342 March 7, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001 Orlando, Florida,

USA March 31-April 04, 2001; 20010331
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

8/3/35 (Item 35 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0012796803 BIOSIS NO.: 200000515116
Costimulation of T cells by **B7-H2**, a **B7**-like molecule
that binds ICOS
AUTHOR: Wang Shengdian; Zhu Gefeng; Chapoval Andrei I; Dong Haidong; Tamada
Koji; Ni Jian; Chen Lieping (Reprint)
AUTHOR ADDRESS: Department of Immunology, Mayo Clinic, 200 First St SW,
Rochester, MN, 55905, USA**USA
JOURNAL: Blood 96 (8): p2808-2813 October 15, 2000 2000
MEDIUM: print
ISSN: 0006-4971
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/36 (Item 36 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0010521169 BIOSIS NO.: 199699155229
Allogeneic lymphocyte responses to **B7-1** expressing human cancer cell
lines
AUTHOR: Dessureault Sophie; Gallinger Steven (Reprint)
AUTHOR ADDRESS: Mt. Sinai Hosp., 1225-600 University Ave., Toronto, ON M5G
1X5, Canada**Canada
JOURNAL: Journal of Surgical Research 64 (1): p42-48 1996 1996
ISSN: 0022-4804
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/37 (Item 37 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0010161812 BIOSIS NO.: 199698629645
Maturation of neonatal human CD4 T cells: III. Role of *****B7*****
co-stimulation at priming
AUTHOR: Yang Liang-Peng; Demeure Christian E; Byun Dae-Gyoo; Vezzio Nadia;
Delespesse Guy (Reprint)
AUTHOR ADDRESS: Allergy Res. Lab., Cent. Recherche Louis-Charles Simard,
Notre-Dame Hosp., Univ. Montreal, 1560 Sherbrooke St. East, Montreal,
Quebec H2L 4M1, Canada**Canada
JOURNAL: International Immunology 7 (12): p1987-1993 1995 1995
ISSN: 0953-8178
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/38 (Item 38 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0007103574 BIOSIS NO.: 199089021465
SYNTHESIS OF A7 B7 DICARBAIN SULFIN AN ANALOGUE WITH A NONCLEAVABLE
BOND BETWEEN A AND B-CHAIN II. SYNTHESIS OF THE A-CHAIN SEGMENTS
AUTHOR: VIDENOV G (Reprint); STOEVS S; BRANDENBURG D
AUTHOR ADDRESS: DEUTSCHES WOLFFORSCHUNGSINSTITUT AND DER TECHNISCHE
HOCHSCHULE AACHEN, VELTMANPLATZ 8, D-5100 AACHEN**GERMANY
JOURNAL: Biological Chemistry Hoppe-Seyler 370 (10): p1103-1112 1989
ISSN: 0177-3593
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

8/3/39 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

12352187 EMBASE No: 2003471800
Endothelial expression of PD-L1 and PD-L2 down-regulates
CD8SUP+ T cell activation and cytotoxicity
Rodrig N.; Ryan T.; Allen J.A.; Pang H.; Gracie N.; Chernova T.;
Greenfield E.A.; Liang S.C.; Sharpe A.H.; Lichtman A.H.; Freeman G.J.
A.H. Lichtman, Department of Pathology, Brigham and Women's Hospital, 75
Francis St., Boston, MA 02115 United States
AUTHOR EMAIL: alichtman@rics.bwh.harvard.edu
European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 2003,
33/11 (3117-3126)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 42

8/3/40 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

12320140 EMBASE No: 2003433292
Emerging immunomodulatory therapies targeting the co-stimulatory pathways
for the prevention of transplant rejection
Ansari M.J.I.; Abdi R.
M.J.I. Ansari, Brigham and Women's Hospital, Lab. of
Immunogen./Transplant., 75 Francis Street, Boston, MA 02115 United
States
AUTHOR EMAIL: jansari@rics.bwh.harvard.edu
IDrugs (IDRUGS) (United Kingdom) 2003, 6/10 (964-969)
CODEN: IDRUF ISSN: 1369-7056
DOCUMENT TYPE: Journal ; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 84

8/3/41 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

12128697 EMBASE No: 2003239609
Expression of costimulatory molecules in human neuroblastoma. Evidence
that CD40 + neuroblastoma cells undergo apoptosis following interaction
with CD40L
Airoldi I.; Luaildi S.; Bruno S.; Raffaghello L.; Occhino M.; Gambini C.;
Pistoia V.; Corrias M.V.

Dr. V. Pistoia, Laboratory of Oncology, G Gaslini Institute, Largo G
Gaslini, 5, 16148 Genova Italy
AUTHOR EMAIL: vitopistoia@ospedale-gaslini.ge.it
British Journal of Cancer (BR. J. CANCER) (United Kingdom) 19 MAY
2003, 88/10 (1527-1536)
CODEN: BJCAA ISSN: 0007-0920
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 50

8/3/42 (Item 4 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

11546863 EMBASE No: 2002116607
PD-1:PD-L inhibitory pathway affects both CD4SUP+ and CD8SUP+ T cells and
is overcome by IL-2
Carter L.L.; Fouser L.A.; Jussif J.; Fitz L.; Deng B.; Wood C.R.; Collins
M.; Honjo T.; Freeman G.J.; Carreno B.M.
L. Carter, Wyeth-Genetics Institute, 200 Cambridge Park Drive, Cambridge,
MA 02140 United States
AUTHOR EMAIL: LCarter@genetics.com
European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 2002,
32/3 (634-643)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 41

8/3/43 (Item 5 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

11189331 EMBASE No: 2001208376
Differential expression of inducible costimulator-ligand splice variants:
Lymphoid regulation of mouse GL50-B and human GL50 molecules
Ling V.; Wu P.W.; Miyashiro J.S.; Marusic S.; Finnerty H.F.; Collins M.
Dr. V. Ling, Department of Immunology, Genetics Institute, 87
CambridgePark Drive, Cambridge, MA 02081 United States
AUTHOR EMAIL: vling@genetics.com
Journal of Immunology (J. IMMUNOL.) (United States) 15 JUN 2001,
166/12 (7300-7308)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 29

8/3/44 (Item 6 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

07673780 EMBASE No: 1999136316
Enhancement of B7-1 (CD80) expression on B-lymphoma cells by
irradiation
Seo A.; Ishikawa F.; Nakano H.; Nakazaki H.; Kobayashi K.; Kakiuchi T.
Dr. T. Kakiuchi, Department of Immunology, Toho University School of
Medicine, 5-21-16 Omori-nishi, Ota-ku, Tokyo 143-8540 Japan
Immunology (IMMUNOLOGY) (United Kingdom) 1999, 96/4 (642-648)
CODEN: IMMUA ISSN: 0019-2805
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 40

8/3/45 (Item 7 from file: 73)
DIALOG(R) File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

07459262 EMBASE No: 1998377904
L-selectin and beta7 integrin synergistically mediate lymphocyte
migration to mesenteric lymph nodes
Wagner N.; Lohler J.; Tedder T.F.; Rajewsky K.; Muller W.; Steeber D.A.
N. Wagner, Institute for Genetics, University of Cologne, Weyertal 121,
D-50937 Cologne Germany
AUTHOR EMAIL: n.wagner@uni-koeln.de
European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 1998,
28/11 (3832-3839)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 31

8/3/46 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

16030244 PMID: 15098076
Cloning and Identification of Two Novel Splice Variants of Human PD
- ***L2***
He Xian-Hui; Liu Yi; Xu Li-Hui; Zeng Yao-Ying
Key Laboratory of Tissue Transplantation and Immunology, Jinan
University, Ministry of Education, Guangzhou 510632, China. ozms@jnu.edu.cn
Sheng wu hua xue yu sheng wu wu li xue bao Acta biochimica et biophysica
Sinica (China) Apr 2004, 36 (4) p284-9, ISSN 0582-9879
Journal Code: 20730160R
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: In Data Review

8/3/47 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

15547226 PMID: 14603470
Expression of the B7-related molecule ICOSL by human glioma cells
in vitro and in vivo.
Schreiner Bettina; Wischhusen Jorg; Mitsdoerffer Meike; Schneider Dagmar;
Bornemann Antje; Melms Arthur; Tolosa Eva; Weller Michael; Wiendl Heinz
Department of Neurology, University of Tübingen, Medical School,
Tübingen, Germany.
Glia (United States) Dec 2003, 44 (3) p296-301, ISSN 0894-1491
Journal Code: 8806785
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

8/3/48 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

12406016 PMID: 12800259

In situ expression and significance of B7 costimulatory molecules within tissues of human gastric carcinoma.

Chen Xiao-Li; Cao Xu-Dong; Kang An-Jing; Wang Kang-Min; Su Bao-Shan; Wang Yi-Li

Department of Pathology, Second Hospital of Xi'an Jiaotong University, Xi'an 710004, Shaanxi Province, China. chenxiaoli64.student@sina.com

World journal of gastroenterology - WJG (China) Jun 2003, 9 (6) p1370-3, ISSN 1007-9327 Journal Code: 100883448

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

8/3/49 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12325590 PMID: 12690043

Muscle fibres and cultured muscle cells express the ***B7*** .1/2-related inducible co-stimulatory molecule, ICOSL: implications for the pathogenesis of inflammatory myopathies.

Wiendl Heinz; Mitsdoerffer Meike; Schneider Dagmar; Melms Arthur; Lochmuller Hanns; Hohlfield Reinhard; Weller Michael

Department of Neurology, University of Tübingen, Medical School, Tübingen, Germany. heinz.wiendl@uni-tuebingen.de

Brain; a journal of neurology (England) May 2003, 126 (Pt 5) p1026-35, ISSN 0006-8950 Journal Code: 0372537

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

8/3/50 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11772948 PMID: 11956294

Ligand binding sites of inducible costimulator and high avidity mutants with improved function.

Wang Shengdian; Zhu Gefeng; Tamada Koji; Chen Lieping; Bajorath Jurgen
Department of Immunology, Mayo Clinic, Rochester, MN 55905, USA.

Journal of experimental medicine (United States) Apr 15 2002, 195 (8) p1033-41, ISSN 0022-1007 Journal Code: 2985109R

Contract/Grant No.: CA79915; CA; NCI; CA85712; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

8/3/51 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11687543 PMID: 11861596

The B7 family of ligands and its receptors: new pathways for costimulation and inhibition of immune responses.

Carreno Beatriz M; Collins Mary

Genetics Institute/Wyeth Research, 87 Cambridge Park Drive, Cambridge, Massachusetts 02140, USA. bcarreno@genetics.com

Annual review of immunology (United States) 2002, 20 p29-53, ISSN

0732-0582 Journal Code: 8309206
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

8/3/52 (Item 1 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

140161941 CA: 140(11)161941g JOURNAL
Control of autoimmune diseases by the B7-CD28 family molecules
AUTHOR(S): Anand, Sudarshan; Chen, Lieping
LOCATION: Department of Immunology, Mayo Clinic, Mayo Medical School and
Graduate School, Rochester, MN, 55905, USA
JOURNAL: Curr. Pharm. Des. (Current Pharmaceutical Design) DATE: 2004
VOLUME: 10 NUMBER: 2 PAGES: 121-128 CODEN: CPDEFP ISSN: 1381-6128
LANGUAGE: English PUBLISHER: Bentham Science Publishers Ltd.

8/3/53 (Item 2 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

140040900 CA: 140(4)40900j PATENT
Immunomodulation in a mammal by the alteration of specific gene
expression in dendritic cells using small interfering RNA, and therapeutic
uses
INVENTOR(AUTHOR): Min, Wei-ping; Ichim, Thomas; Hill, Jonathan
LOCATION: Can.,
ASSIGNEE: London Health Sciences Centre Research Inc.
PATENT: PCT International ; WO 2003104456 A1 DATE: 20031218
APPLICATION: WO 2003CA867 (20030610) *CA 2388441 (20020610)
PAGES: 52 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/11A;
C12N-005/10B; A61K-039/00B; A61P-037/00B DESIGNATED COUNTRIES: AE; AG; AL;
AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK;
DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE;
KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ;
NI; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; TJ; TM; TN; TR;
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU;
TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM;
; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT;
LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG

8/3/54 (Item 3 from file: 399)
DIALOG(R) File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

140040883 CA: 140(4)40883f PATENT
Epstein-Barr virus-specific immunization
INVENTOR(AUTHOR): Celis, Esteban
LOCATION: USA
ASSIGNEE: Mayo Foundation for Medical Education and Research
PATENT: PCT International ; WO 2003105665 A2 DATE: 20031224
APPLICATION: WO 2003US18682 (20030613) *US PV388625 (20020614)
PAGES: 56 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61B-000/A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; AM;

AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ
; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI;
FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG;
CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3/55 (Item 4 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

140026615 CA: 140(3)26615p JOURNAL
Informatics and the immune system: the expanding IL-1 and B7 protein
families
AUTHOR(S): Grant, Ethan P.; Coyle, Anthony J.; Gutierrez-Ramos,
Jose-Carlos
LOCATION: Millennium Pharmaceuticals, Inc., Cambridge, MA, 02139, USA
JOURNAL: Semin. Immunol. (Seminars in Immunology) DATE: 2003 VOLUME: 15
NUMBER: 4 PAGES: 225-231 CODEN: SEIME2 ISSN: 1044-5323 LANGUAGE:
English PUBLISHER: Elsevier Science B.V.

8/3/56 (Item 5 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

139192528 CA: 139(13)192528m PATENT
Sequences of the modified human protein ICOS having altered affinity for
B7-H2
INVENTOR(AUTHOR): Chen, Lieping; Bajorath, Jurgen
LOCATION: USA
PATENT: U.S. Pat. Appl. Publ. ; US 20030158102 A1 DATE: 20030821
APPLICATION: US 72622 (20020207)
PAGES: 27 pp. CODEN: USXXCO LANGUAGE: English CLASS: 514012000;
A61K-038/17A; C07K-014/47B; C12P-021/02B; C12N-005/06B; C07H-021/04B

8/3/57 (Item 6 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

139099862 CA: 139(7)99862f PATENT
Activation and expansion of T-cells using an engineered multivalent
signaling platform
INVENTOR(AUTHOR): Maus, Marcela; Thomas, Anna; June, Carl; Riley, James
LOCATION: USA
ASSIGNEE: The Trustees of the University of Pennsylvania
PATENT: PCT International ; WO 200357171 A2 DATE: 20030717
APPLICATION: WO 2003US339 (20030103) *US PV346092 (20020103)
PAGES: 108 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: A61K-000/A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD;
SE; SG; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM;
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS
; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE;
ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; SE; SI; SK; TR; BF; BJ; CF;
CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3/58 (Item 7 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

138384162 CA: 138(25)384162p PATENT
Antibodies and small molecules that modulate immune cell activation
through blockage of PD-1 ligands and B7 molecules
INVENTOR(AUTHOR): Freeman, Gordon J.; Sharpe, Arlene H.; Buhlman, Janet;
Mandelbrot, Didier
LOCATION: USA
ASSIGNEE: Dana-Farber Cancer Institute, Inc.; Brigham and Women's
Hospital
PATENT: PCT International ; WO 200342402 A2 DATE: 20030522
APPLICATION: WO 2002US36518 (20021112) *US PV337817 (20011113)
PAGES: 72 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-000/A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU; ZA; ZM; ZW;
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW
; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM;
GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3/59 (Item 8 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

138168815 CA: 138(12)168815m PATENT
B7-related nucleic acids and polypeptides useful for immunomodulation
INVENTOR(AUTHOR): Mikesell, Glen E.; Shen, Henry
LOCATION: USA
PATENT: U.S. Pat. Appl. Publ. ; US 20030031675 A1 DATE: 20030213
APPLICATION: US 77023 (20020215) *US PV209811 (20000606) *US PV272107
(20010228) *US 875338 (20010606)
PAGES: 163 pp., Cont.-in-part of U.S. Ser. No. 875,338. CODEN: USXXCO
LANGUAGE: English CLASS: 424178100; A61K-039/395A; C07H-021/04B;
C12P-021/04B; C12N-001/21B; C12N-005/04B; C12N-005/06B

8/3/60 (Item 9 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

137305774 CA: 137(21)305774t PATENT
Human cDNA sequences and their encoded proteins and diagnostic and
therapeutic uses
INVENTOR(AUTHOR): Anderson, David; Burgess, Catherine E.; Casman, Stacie
J.; Colman, Steven; Edinger, Schlomit; Ellerman, Karen; Gerlach, Valerie;
Gunther, Erik; Kekuda, Ramesh; MacDougall, John R.; Mehraban, Fuad;
Patturajan, Meera; Rothenberg, Mark; Shimkets, Richard A.; Smithson,
Glennnda; Spytek, Kimberly A.; Stone, David J.; Vernet, Corine A. M.;
Zerhusen, Bryan D.
LOCATION: USA
ASSIGNEE: Curagen Corporation
PATENT: PCT International ; WO 200281510 A2 DATE: 20021017
APPLICATION: WO 2002US1467 (20020118) *US PV262454 (20010118) *US
PV262892 (20010119) *US PV263605 (20010123) *US PV264159 (20010125) *US
PV265517 (20010131) *US PV267057 (20010207) *US PV269098 (20010215) *US
PV271855 (20010227) *US PV272920 (20010302) *US PV284549 (20010418) *US
PV285040 (20010420) *US PV286287 (20010424) *US PV303229 (20010705)
PAGES: 415 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07K-014/00A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;

SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ;
BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD
; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;
IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
NE; SN; TD; TG

8/3/61 (Item 10 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

137153820 CA: 137(11)153820q PATENT
Protein and cDNA sequences of novel members of human B7 family, B7-H2
molecules, and uses thereof
INVENTOR(AUTHOR): Coyle, Anthony J.; Fraser, Christopher C.; Manning,
Stephen
LOCATION: USA
ASSIGNEE: Millennium Pharmaceuticals, Inc.
PATENT: U.S. Pat. Appl. Publ. ; US 20020106730 A1 DATE: 20020808
APPLICATION: US 910174 (20010720) *US 620461 (20000720)
PAGES: 101 pp., Cont.-in-part of U.S. Ser. No. 620,461. CODEN: USXXCO
LANGUAGE: English CLASS: 435069100; C07K-014/705A; C07H-021/04B;
C12P-021/02B; C12N-005/06B

8/3/62 (Item 11 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

137108297 CA: 137(8)108297p PATENT
B7-related factors BSL1, BSL2 and BSL3, encoding nucleic acids and
antibodies for immunomodulation and treatment of cancer, viral infection,
autoimmune disease, transplant rejection and graft versus host disease
INVENTOR(AUTHOR): Mikesell, Glen E.; Chang, Han; Finger, Joshua N.; Yang,
Guchen; Lu, Pin; Zhou, Xia-Di; Peach, Robert J.
LOCATION: USA
PATENT: U.S. Pat. Appl. Publ. ; US 20020095024 A1 DATE: 20020718
APPLICATION: US 875338 (20010606) *US PV209811 (20000606) *US PV272107
(20010228)
PAGES: 82 pp., Cont.-in-part of U.S. Provisional Ser. No. 272,107.
CODEN: USXXCO LANGUAGE: English CLASS: 530350000; C07K-014/705A;
C07K-016/28B; C12P-021/02B; C07H-021/04B; C12N-005/06B

8/3/63 (Item 12 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 2004 American Chemical Society. All rts. reserv.

137077882 CA: 137(6)77882u PATENT
Human antigen B7-H2 and cDNAs and drug screening targeted to its
regulation and other therapeutic application for related diseases
INVENTOR(AUTHOR): Encinas, Jeffrey; Tanabe, Eri; Watanabe, Shinichi
LOCATION: Germany,
ASSIGNEE: Bayer Aktiengesellschaft
PATENT: PCT International ; WO 200253733 A2 DATE: 20020711
APPLICATION: WO 2002EP28 (20020104) *US PV259632 (20010104)
PAGES: 105 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/12A;
C07K-014/47B; G01N-033/68B DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU;
AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC;
EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR;
KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PH;
PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ;
VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH
; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK;

ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM;
GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3/64 (Item 13 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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136149860 CA: 136(10)149860q PATENT

B7-H3 and B7-H4, novel immunoregulatory molecules

INVENTOR(AUTHOR): Chen, Lieping

LOCATION: USA

ASSIGNEE: Mayo Foundation for Medical Education and Research

PATENT: PCT International ; WO 200210187 A1 DATE: 20020207

APPLICATION: WO 2001US41430 (20010726) *US PV220991 (20000727)

PAGES: 61 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07H-021/04A;
C12N-015/00B; C12N-015/12B; C12N-015/63B; C07K-016/46B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM;
HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV;
MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK;
SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ;
MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ
; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;
PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

8/3/65 (Item 14 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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136146182 CA: 136(10)146182j PATENT

Protein and cDNA sequences of novel human and mouse protein B7-H2
sequence homologs and uses thereof

INVENTOR(AUTHOR): Coyle, Anthony J.; Fraser, Christopher C.; Manning,
Stephen

LOCATION: USA

ASSIGNEE: Millennium Pharmaceuticals, Inc.

PATENT: PCT International ; WO 200208279 A2 DATE: 20020131

APPLICATION: WO 2001US23094 (20010720) *US 620461 (20000720)

PAGES: 169 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07K-014/47A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AT; AU; AZ; BA; BB; BG; BR; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; CZ; DE; DE; DK; DK; DM; DZ; EC; EE; EE; ES;
FI; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ;
LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT;
RO; RU; SD; SE; SG; SI; SK; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU;
ZA; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS
; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG

8/3/66 (Item 15 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

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134218032 CA: 134(16)218032u PATENT

Cloning and characterization of a B7 homolog 3 (B7-H3) protein and its
therapeutic application

INVENTOR(AUTHOR): Ruben, Steven M.; Chen, Lieping; Baker, Kevin; Ni, Jian

LOCATION: USA

ASSIGNEE: Human Genome Sciences, Inc.; Mayo Clinic

PATENT: PCT International ; WO 200118021 A1 DATE: 20010315

APPLICATION: WO 2000US23792 (20000830) *US PV152317 (19990903) *US

PV200346 (20000428)

PAGES: 252 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C07H-021/04A;
C12N-001/21B; C12N-015/00B; C12N-015/63B; C07K-014/46B; C07K-014/52B;
A61K-038/00B; C12Q-001/68B; G01N-033/53B DESIGNATED COUNTRIES: AE; AG; AL;
AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM;
DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP;
KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ;
PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ;
VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH
; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN;
GW; ML; MR; NE; SN; TD; TG

?

☐ Drafts
☐ BRS:
☐ Pending
☐ Active
☐ L17: (115) b7\$1 or b7\$h2 or b7\$h7 or b\$13 or pd\$L2
☐ L18: (209) L17 and b7\$
☐ L19: (2) fox-gary-\$in. and b7\$
☐ L20: (30) yoshinaga.in. and b7\$
☐ Failed
☐ Saved
☐ Favorites
☐ Tagged (0)
☐ UDC
☐ Queue
☐ Trash

Person	Date	Source	Quota	Class
09	1955	US STATUS FOR US B2, PD DERIVATIVE		
Default source: 08				
b7\$1 or b7\$h2 or b7\$h7 or b\$13 or pd\$L2				

09 / 955866

01/458866

Set	Items	Description
S1	30	E3-E6
S2	29	RD S1 (unique items)
S3	28	E1-E5
S4	0	(S1 OR S3) AND (B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD-(W)L2)
S5	17	(S1 OR S3) AND B7?
S6	12	RD S5 (unique items)
S7	112	(B7(W)L OR B7(W)H2 OR B7(W)H7 OR BSL3 OR PD(W)L2) AND B7?
S8	66	RD S7 (unique items)
S9	15	S8 AND PY<2002
?		